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Form PTO 1449		
SECURITY DOCKET NO. 39-00	SERIAL NO. 09/880,713	FILING DATE: June 12, 2001
APPLICANT: Aebersold and Zhou		GROUP: 1645/1641

U.S. PATENT DOCUMENTS

Exmr Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MJC	1	4,798,795	01/17/89	Sigler	435	177	
MJC	2	5,240,859	08/31/93	Aebersold	436	89	
MJC	3	5,438,017	08/01/95	Allen et al.	436	89	
MJC	4	5,514,559	05/07/96	Marker-Hahn et al.	435	7.92	
MJC	5	5,527,711	06/18/96	Tom-Moy et al.	436	518	
MJC	6	5,534,132	07/09/96	Vreeke et al.	205	777.5	
MJC	7	5,534,440	07/09/96	Aebersold et al.	436	89	
MJC	8	5,538,897	07/23/96	Yates, III et al.	436	89	
MJC	9	5,614,368	03/25/97	Ghazarossian et al.	435	7.5	
MJC	10	5,650,270	07/22/97	Giese et al.	435	6	
MJC	11	5,658,725	08/19/97	Schlieper et al.	435	5	
MJC	12	5,686,310	11/11/97	Haystead et al.	436	86	
MJC	13	5,738,984	04/14/98	Shoseyov	435	4	
MJC	14	5,851,781	12/22/98	Adamczyk et al.	435	7.9	
MJC	15	5,863,740	01/26/99	Kientsch-Engel et al.	435	7.5	
MJC	16	5,880,270	03/09/99	Berninger et al.	530	391.1	
MJC	17	5,952,653	09/14/99	Covey et al.	250	288	
MJC	18	5,958,703	09/28/99	Dower et al.	435	7.1	
MJC	19	5,965,131	10/12/99	Griffiths et al.	424	133.1	
MJC	20	5,965,457	10/12/99	Magnani	436	518	
MJC	21	6,017,693	01/25/00	Yates, III et al.	435	5	
MJC	22	6,057,096	05/02/00	Rothschild et al.	435	6	

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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No
MEC	23	WO00/11208	03/02/00	PCT	C12Q	1/00	
MEC	24	WO98/26095	06/18/98	PCT	C12Q	1/68	
MEC	25	WO 90/04786	05/03/90	PCT	G01N	33/53	

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

MEC	26	Aebersold, R. et al. "Determination of the site of tyrosine phosphorylation at the low picomole level by automated solid-phase sequence analysis" (1991) Anal. Biochem. 199:51-60
MEC	27	Ashikaga, K. et al., "Intramolecular End-to-End Reactions of Photoactive Terminal Groups Linked by Poly(oxyethylene) Chains," (1988) Bull. Chem. Soc. Jpn. 61:2443-2450
MEC	28	Bayer, E. and Wilchek, M., "Biotin-Binding Proteins: Overview and Prospects," (1990) Methods Enzymol. 184:49-51.
MEC	29	Bennetzen, J.L. and Hall, B.D., "Codon Selection in Yeast," (Mar 1982) J. Biol. Chem. 257(6):3026-3031
MEC	30	Boucherie, H. et al., "Two-dimensional gel protein database of Saccharomyces cerevisiae" (1996) Electrophoresis 17:1683-1699
MEC	31	Brockhausen, I. et al., "Control of glycoprotein synthesis," (1989) J. Biol. Chem. 264(19):11211-11221.
MEC	32	Bruce, J.E. et al., "Obtaining More Accurate FTICR Mass Measurements Without Internal Standards using Multiply Charged Ions," (January 2000) J. Am. Soc. Mass Spec. 11(5):416-421
MEC	33	Bruce, J.E. et al., "High-Mass-Measurement Accuracy and 100% Sequence Coverage of Enzymatically Digested Bovine Serum Albumin from an ESI-FTICR Mass Spectrum," (July 1999) Anal. Chem. 71(14):2595-2599
MEC	34	Chapman, A. et al., "The primary glycosylation defect in class E Thy-1-negative mutant mouse lymphoma cells is an inability to synthesize dolichol-P-mannose," (1980) J. Biol. Chem. 255(10):4441-4446.
MEC	35	Clauser, K.R. et al., "Rapid mass spectrometric peptide sequencing and mass matching for characterization of human melanoma proteins isolated by two-dimensional PAGE," (1995) Proc. Natl. Acad. Sci. USA 92:5072-5076.

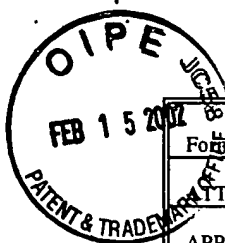
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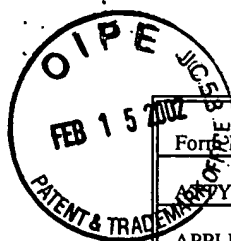
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<i>MAC</i>	36	Davis, T. et al., "Rapid Protein Identification Using a Microscale Electrospray LC/MS System on an Ion Trap Mass Spectrometer," (March 1998) J. Am. Soc. Mass. Spec. 9:194-201
<i>MAC</i>	37	De Leenheer, A.P. and Thienpont, L.M., "Applications of isotope dilution-mass spectrometry in clinical chemistry, pharmacokinetics, and toxicology," (1992) Mass Spectrom. Rev. 11:249-307.
<i>MAC</i>	38	DeRisi, J.L. et al., "Exploring the metabolic and genetic control of gene expression on a genomic scale," (October 1997) Science 278:680-686
<i>MAC</i>	39	Dongré, A. R. et al., "Emerging tandem-mass-spectrometry techniques for the rapid identification of proteins," (October 1997) Trends Biotechnol. 15:418-425.
<i>MAC</i>	40	Ducet, A. et al., "High throughput protein characterization by automated reverse-phase chromatography/electrospray tandem mass spectrometry," (March 1998) Prot. Sci. 7:706-719.
<i>MAC</i>	41	Duncan, M.W., and Poljak, A., "Amino Acid Analysis of Peptides and Proteins on the Femtomole Scale by Gas Chromatography/Mass Spectrometry" (March 1998) Anal. Chem. 70(5):890-896
<i>MAC</i>	42	Eng, J. et al. , "An approach to correlate tandem mass spectral data of peptides with amino acid sequences in a protein database," (1994) J. Am. Soc. Mass Spectrom. 5:976-989.
<i>MAC</i>	43	Fenyo, D. et al., "Protein identification using mass spectrometric information," (May 1998) Electrophoresis 19:998-1005
<i>MAC</i>	44	Figeys, D. et al., "Electrophoresis combined with novel mass spectrometry techniques: Powerful tools for the analysis of proteins and proteomes," (July 1998) Electrophoresis 19:1811-1818.
<i>MAC</i>	45	Figeys, D. and Aebersold, R., "High sensitivity analysis of proteins and peptides by capillary electrophoresis tandem mass spectrometry: Recent developments in technology and applications," (May 1998) Electrophoresis 19:885-892.
<i>MAC</i>	46	Figeys, D. et al., "Protein identification by solid phase microextraction-capillary zone electrophoresis-microelectrospray-tandem mass spectrometry," (November 1996) Nature Biotech. 14:1579-1583.
<i>MAC</i>	47	Figeys, D. et al., "A microfabricated device for rapid protein identification by microelectrospray ion trap mass spectrometry," (August 1997) Anal. Chem. 69:3153-3160.
<i>MAC</i>	48	Fraser, C.M. et al., "Genomic sequence of a Lyme disease spirochaete, Borrelia burgdorferi," (December 1997) Nature 390:580-586

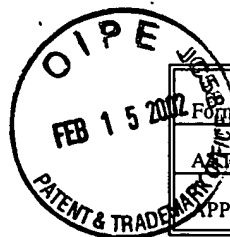
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<i>MTC</i>	49	Freeze, H. H., "Disorders in protein glycosylation and potential therapy: Tip of an iceberg?" (November 1998) J. Pediatrics <b>133</b> :593-600.
<i>MTC</i>	50	Freeze, H. H., "Human glycosylation disorders and sugar supplement therapy," (February 1999) Biochem. Biophys. Res. Commun. <b>255</b> :189-193.
<i>MTC</i>	51	Futcher, B. et al., "A Sampling of the Yeast Proteome" (November 1999) Mol. Cell. Bio. <b>19</b> (11):7357-7368
<i>MTC</i>	52	Gamper, H.B., "Facile Preparation of Nuclease Resistant 3' Modified Oligodeoxynucleotides," (1993) Nucl. Acids Res. <b>21</b> (1):145-150
<i>MTC</i>	53	Garrels, J. I. et al., "Proteome studies of Saccharomyces cerevisiae: identification and characterization of abundant proteins." (August 1997) Electrophoresis <b>18</b> :1347-1360.
<i>MTC</i>	54	Gerber, S.A. et al., "Analysis of rates of multiple enzymes in cell lysates by electrospray ionization mass spectrometry," (February 1999) J. Am. Chem. Soc. <b>121</b> :1102-1103.
<i>MTC</i>	55	Glaser, L. Phosphomannomutase from yeast. (1966) In Meth. Enzymol. Vol. <b>VIII</b> , Neufeld, E. F.; Ginsburg, V. Eds; Academic Press: New York 1966, pp. 183-185.
<i>MTC</i>	56	Gingras, A.C. et al., "Regulation of 4E-BP1 phosphorylation: a novel two-step mechanism" (June 1999) Genes Dev. <b>13</b> (11):1422-1437
<i>MTC</i>	57	Goffeau et al. , "Life with 6000 Genes," (Oct 1996) Science <b>274</b> :546-549
<i>MTC</i>	58	Goodlett, D.R. et al., "Protein identification with a single accurate mass of a cysteine-containing peptide and constrained database searching" (March 2000) Anal. Chem. <b>72</b> (6):1112-1118
<i>MTC</i>	59	Goodlett, D.R. et al., "Quantitative in Vitro kinase reaction as a guide for phosphoprotein analysis by mass spectrometry" (March 2000) Rapid Commun Mass Spectrom. <b>14</b> (5):344-348
<i>MTC</i>	60	Goodlett, D.R. et al., "Reduced Elution Speed Detection for Capillary Electrophoresis/Mass Spectrometry," (1993) J. Microcolumn Separations <b>5</b> :57-62
<i>MTC</i>	61	Graves, J.D. & Krebs, ED. "Protein phosphorylation and signal transduction" (May 1999) Pharmacol. Ther. <b>82</b> (2-3):111-121
<i>MTC</i>	62	Gygi, S.P. et al., "Correlation between protein and mRNA abundance in yeast," (March 1999) Mol. Cell. Biol. <b>19</b> :1720-1730.
<i>MTC</i>	63	Gygi, S.P. et al., "Protein analysis by mass spectrometry and sequence database searching: tools for cancer research in the post-genomic era," (February 1999) Electrophoresis <b>20</b> :310-319.
<i>MTC</i>	64	Gygi, S. P. et al., "Quantitative analysis of complex protein mixtures using isotope-coded affinity tags" (October 1999) Nature Biotechnology <b>17</b> :994-999

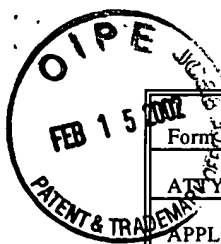
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MFC	65	Gygi, S.P. and Aebersold, R., "Mass spectrometry and proteomics" (October 2000) Curr. Opin. Chem. Biol. 4(5):489-94
MFC	66	Gygi, S.P. et al., "Measuring gene expression by quantitative proteome analysis" (August 2000) Curr. Opin. Biotechnol. 11(4):396-401
MFC	67	Haynes, P. A. et al., "Identification of gel-separated proteins by liquid chromatography electrospray tandem mass spectrometry: Comparison of methods and their limitations," (May 1998) Electrophoresis 19:939-945.
MFC	68	Haynes, P.A. et al., "Proteome Analysis: Biological Assay or Data Archive?" (1998) Electrophoresis Vol. 19:1862-1871
MFC	69	Henzel, W.J. et al., "Identifying proteins from two-dimensional gels by molecular mass searching of peptide fragments in protein sequence databases," (June 1993) Proc. Natl. Acad. Sci. USA 90:5011-5015
MFC	70	Hodges, P.E. et al., "The Yeast Proteome Database (YPD): a model for the organization and presentation of genome-wide functional data," (January 1999) Nucl. Acids Res. 2(1):69-73.
MFC	71	Horn, D.M. et al., "A Computer Program for Automated Analysis of High Resolution Mass Spectra," (1998) Proceedings of the 46 <sup>th</sup> ASMS Conf. on Mass Spectrometry and Allied Topics, Orlando, FL May 31 - June 4, 1998, p.118
MFC	72	Hunter, T. "1001 protein kinases redux—towards 2000" (1994) Semin. Cell Biol. 5:367-376
MFC	73	Ideker, T. et al., "Integrated genomic and proteomic analyses of a systematically perturbed metabolic network" (May 2001) Science 292(5518):929-34
MFC	74	Jonscher, K.R. and Yates, J.R. III, "Matrix-assisted laser desorption ionization/quadrupole ion trap mass spectrometry of peptides. Application to the localization of phosphorylation sites on the P protein from Sendai virus" (January 1997) J. Biol. Chem. 272(3):1735-1741
MFC	75	Kataky, R. et al., "Comparative Study of Mono- and Di-substituted 14-Crown-4 Derivatives as Lithium Ionophores," (1990) J. Chem. Soc. Perkin Trans. 2(2):321-327
MFC	76	Kaur, K. J. and Alton, G.; Hindsgaul, O., "Use of N-acetylglucosaminyl-transferases I and II in the preparative synthesis of oligosaccharides," (1991) Carbohydr. Res. 210:145-153.
MFC	77	Kaur, K. J. and Hingsgaul, O. "A simple synthesis of octyl 3,6-di-O-( -D-mannopyranosyl)- -D-manopyranoside and its use as an acceptor for the assay of N-acetylglucosaminetransferase I activity," (1991) Glycoconjugate J. 8:90-94.

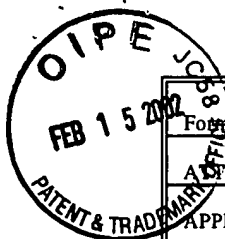
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MFC	79	Koch, C.A. et al., "SH2 and SH3 domains: elements that control interactions of cytoplasmic signaling proteins" (1991) Science <b>252</b> :668-674
MFC	80	Körner, C. et al., "Carbohydrate-deficient glycoprotein syndrome type V: deficiency of dolichyl-P-Glc:Man <sub>6</sub> GlcNAc <sub>2</sub> -PP-dolichyl glucosyltransferase," (October 1998) Proc. Natl. Acad. Sci. U.S.A. <b>95</b> :13200-13205.
MFC	81	Laemmli, U.K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," (Aug 1970) Nature <b>227</b> :680-695
MFC	82	Lee et al., "HLA-E Surface Expression Depends on Binding of TAP-Dependent Peptides Derived from Certain HLA Class I Signal Sequences," (January 1998) J. Immunol. <b>160</b> :4951-4960
MFC	83	Link, A. J. et al., "Identifying the major proteome components of Haemophilus influenzae type-strain NCTC 8143," (August 1997) Electrophoresis <b>18</b> :1314-1334.
MFC	84	Link, J. et al., "Direct analysis of protein complexes using mass spectrometry," (July 1999) Nat. Biotech. <b>17</b> :676-682
MFC	85	Lundell, N. and Schreitmuller, T., "Sample Preparation for Peptide Mapping - A Pharmaceutical Quality-Control Perspective," (January 1999) Anal. Biochem. <b>266</b> :31-47
MFC	86	Mann, M. and Wilm, M., "Error-tolerant identification of peptides in sequence databases by peptide sequence tags," (1994) Anal. Chem. <b>66</b> :4390-4399.
MFC	87	Marshall, A.G. et al., "Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Primer," (May 1998) Mass. Spectrom. Rev. <b>17</b> :1-35
MFC	88	McMurry, J. E. and Kocovsky, P., "A method for the palladium-catalyzed allylic oxidation of olefins," (1984) Tetrahedron Lett. <b>25</b> (38):4187-4190.
MFC	89	McCormack, A.L. et al. "Direct Analysis and Identification of Proteins in Mixtures by LC/MS/MS and Database Searching at the Low-Femtomole Level" (1997) Anal. Chem. <b>69</b> :767-776
MFC	90	Morris, A.A.M. and Turnbull, D.M., "Metabolic disorders in children," (1994) Curr. Opin. Neurol. <b>7</b> :535-541.
MFC	91	Mosely, M.A. et al., "Nanoscale Packed-Capillary Liquid Chromatography Coupled with Mass Spectrometry Using a Coaxial Continuous-Flow Fast Atom Bombardment Interface," (1991) Anal. Chem. <b>63</b> :1467-1473
MFC	92	Neubauer, G. et al., "Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex," (Sept 1998) Nature Genetics <b>20</b> :46-50
MFC	93	Oda, Y. et al., "Accurate quantitation of protein expression and site-specific phosphorylation," (June 1999) Proc. Natl. Acad. Sci. USA <b>96</b> :6591-6596

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MEC	94	Ogryzko, V.V. et al., "Histone-like TAFs within the PCAF Histone Acetylase Complex" (July 1998) Cell 94:35-44
MAC	95	Okada, S. and O'Brien, J.S., "Generalized Gangliosidosis: Beta-Galactosidase Deficiency," (1968) Science 160:1002-1004.
MEC	96	Opiteck, G.J. et al., "Comprehensive on-line LC/LC/MS of proteins," (April 1997) Anal. Chem. 69:1518-1524
MEC	97	Papayannopoulos, I.A., "The interpretation of collision-induced dissociation tandem mass spectra of peptides" (1995) Mass Spectrometry Rev. 14:49-73
MEC	98	Patterson, S.D. and Aebersold, R., "Mass spectrometric approaches for the identification of gel-separated proteins," (1995) Electro. 16:1791-1814
MEC	99	Paulsen, H. and Meinjohanns, E., "Synthesis of modified oligosaccharides of N-glycoproteins intended for substrate specificity studies of N-acetylglucosaminyltransferases II-V," (1992) Tetrahedron Lett. 33(48):7327-7330
MEC	100	Paulsen, H. et al. "Building units of oligosaccharides: CVII. Synthesis of modified oligosaccharides of N-glycoproteins for substrate specificity studies of N-acetylglucosaminyltransferase II." (1993) Liebigs Annalen der Chemie 7:721-735
MEC	101	Pennington, S. R. et al., "Proteome analysis: from protein characterization to biological function," (April 1997) Trends Cell Bio. 7:168-173.
MEC	102	Qin, J. et al., "A strategy for rapid, high-confidence protein identification," (October 1997) Anal. Chem. 69(19):3995-4001
MEC	103	Qin, J. et al., "De Novo Peptide Sequencing in an Ion Trap Mass Spectrometer with <sup>18</sup> O Labeling" (January 1998) Rapid Communications in Mass Spectrometry 12:209-216
MEC	104	Qin, J. and Chait, B.T., "Identification and characterization of posttranslational modifications of proteins by MALDI ion trap mass spectrometry" (1997) Anal. Chem. 69(19):4002-4009
MEC	105	Romanowska, A. et al., "Serological and Structural Features of Hafnia Alvei Lipopolysaccharides containing D-3-hydroxybutyric Acid," (1994) FEMS Immunol. Med. Microbiol. 8(1):83-88
MEC	106	Romanowska, A., "Michael Additions for Syntheses of Neoglycoproteins," (1994) Methods Enzymol. 242:90-101
MEC	107	Ronin, C. et al., "Transfer of glucose in the biosynthesis of thyroid glycoproteins. I. Inhibition of glucose transfer to oligosaccharide lipids by GDP-mannose," (1981) Biochim. Biophys. Acta 674, 48-57.

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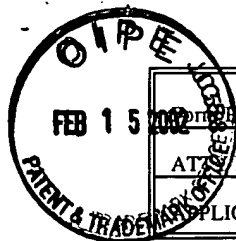


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<i>MAC</i>	108	Ronin, C. et al., "Synthetic substrates for thyroid oligosaccharide transferase. Effects of peptide chain length and modifications in the -Asn-Xaa-Thr- region," (1981) Eur. J. Biochem. <b>118</b> , 159-164.
<i>MAC</i>	109	Ronne, H., "Glucose repression in fungi," (1995) Trends Genet. <b>1</b> (1):12-17.
<i>MAC</i>	110	Roth, F.P. et al., "Finding DNA regulatory motifs within unaligned noncoding sequences clustered by whole-genome mRNA quantitation," (October 1998) Nat. Biotechnol. <b>16</b> :939-945
<i>MAC</i>	111	Rush, J. S. and Wachter, C. J., "Transmembrane movement of a water-soluble analogue of mannosylphosphoryldolichol is mediated by an endoplasmic reticulum protein," (1995) J. Cell. Biol. <b>130</b> :529-536
<i>MAC</i>	112	Rush and Wachter, "Method for determination of cellular levels of guanosine-5'-diphosphate-mannose based on a weak interaction with concanavalin A at low pH," (1995) Anal. Biochem. <b>224</b> (2):494-501
<i>MAC</i>	113	Schachter, H., "Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides," (1986) Biochem. Cell Biol. <b>64</b> , 163-181
<i>MAC</i>	114	Sechi, S. and Chait, B.T., "Modification of cysteine residues by alkylation. A tool in peptide mapping and protein identification," (December 1998) Anal. Chem. <b>70</b> :5150-5158.
<i>MAC</i>	115	Shalon, D. et al., "A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization," (July 1996) Genome Res. <b>6</b> :639-645.
<i>MAC</i>	116	Shevchenko, A. et al., "Linking genome and proteome by mass spectrometry: large-scale identification of yeast proteins from two dimensional gels," (December 1996) Proc. Natl. Acad. Sci. U.S.A. <b>93</b> :14440-14445.
<i>MAC</i>	117	Shevchenko, A. et al., "Mass spectrometric sequencing of proteins silver-stained polyacrylamide gels," (March 1996) Anal. Chem. <b>68</b> :850-858.
<i>MAC</i>	118	Susin et al., "Molecular Characterization of Mitochondrial apoptosis-inducing factor," (Feb 1999) Nature <b>397</b> :441-446
<i>MAC</i>	119	Tan, J. et al., "Mutations in the MGAT2 gene controlling complex glycan synthesis cause carbohydrate deficient glycoprotein syndrome type II, an autosomal recessive disease with defective brain development," (October 1996) Am. J. Hum. Genet. <b>59</b> :810-817
<i>MAC</i>	120	Velculescu, V. E. et al., "Characterization of the yeast transcriptome," (January 1997) Cell <b>88</b> :243-251.

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APPLICANT: Aebersold and Zhou		GROUP: 4645-1641

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MFC	125	Winger et al., "High-Resolution Accurate Mass Measurements of Biomolecules Using a New Electrospray Ionization Ion Cyclotron Resonance Mass Spectrometer," (1993) J. Am. Soc. Mass Spec. 4:566-577
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EXAMINER <i>Mary E. Caporley</i>	DATE CONSIDERED <i>05/08/03</i>
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